



PTO/SB/08a (08-03)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet

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of

8

Complete If Known

Application Number	10/751,009
Filing Date	12/31/2003
First Named Inventor	Samuel P. McManus et al.
Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	SHE0074.00

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
QA	A	US- 2002/0102671	08/01/2002	Janda et al.	
	B	US- 2003/0157582	08/21/2003	Roisin et al.	
	C	US- 3,551,384	12/29/1970	Zeh	
	D	US- 3,668,183	06/06/1972	Hoy et al.	
	E	US- 3,779,986	12/18/1973	Smith et al.	
	F	US- 4,980,514	12/25/1990	Sanderson et al.	
	G	US- 4,992,204	02/12/1991	Kluger et al.	
	H	US- 5,002,998	03/26/1991	Carey et al.	
	I	US- 5,045,396	09/03/1991	Lin et al.	
	J	US- 5,138,095	08/11/1992	Speranza et al.	
	K	US- 5,149,806	09/22/1992	Moren et al.	
	L	US- 5,151,470	09/29/1992	Sanders et al.	
	M	US- 5,580,923	12/03/1996	Yeung et al.	
	N	US- 5,674,531	10/07/1997	Ahlers et al.	
	O	US- 5,723,289	03/03/1998	Eaton et al.	
	P	US- 5,733,968	03/31/1998	Moszner et al.	
	Q	US- 5,858,660	01/12/1999	Eaton et al.	
	R	US- 5,932,641	08/03/1999	Blanchard et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
QA	V	CA 1148166	06/14/1983	Ausonia Farmaceutici s.r.l.		
	W	DE 10126158	12/12/2002	Novira Chem GmbH		
	X	DE 3334209	04/04/1985	Henkel KGaA		
	Y	EP 0361704	04/04/1990	Imperial Chem. Industries PLC		
	Z	EP 0 400 486	12/05/1990	Sumitomo Pharm. Co., Ltd.		

Examiner
SignatureDate
Considered

6/16/06

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		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
JP	AA	EP	0420232	04/03/1991	European Pharmacy Sri		
	AB	EP	0457128	11/21/1991	Mobay Corporation		
	AC	EP	0605963	07/13/1994	Ortho Pharm. Corp.		
	AD	EP	0634393	01/18/1995	Ivoclar Ag		
	AE	EP	1174436	01/23/2002	Seiko Epson Corp.		

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Sheet 3 of 8

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
Qn	AF	EP 1310533	05/14/2003	Agfa-Gevaert		
	AG	JP 1-255620	10/12/1989			
	AH	JP 2000-129568	05/09/2000			
	AI	JP 2001-255620	09/21/2001			
Qn	AJ	JP 2002-234940	08/23/2002			

Date Considered

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Samuel P. McManus et al.

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
91	AK	JP 2-283659	11/21/1990			
↓	AL	JP 60-212435	10/24/1985			
↓	AM	JP 6-324421	11/25/1994			
↓	AN	JP 6-49471	02/22/1994			
91	AO	JP 6-9737	01/18/1994			

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Sheet 5 of 8**Complete If Known**

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		US-			
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		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
Q1	AP	JP	7-159917	06/23/1995			
	AQ	JP	7-62279	03/07/1995			
	AR	JP	7-62594	03/07/1995			
	AS	WO	00/17398	03/30/2000	Nexstar Pharm. Inc.		
Q1	AT	WO	00/44808	08/03/2000	Hubbell		

Examiner Signature	<u>[Signature]</u>	Date Considered	<u>6/16/06</u>
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Sheet	6	of	8	Attorney Docket Number	SHE0074.00
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Application Number	10/751.009
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Attorney Docket Number	SHE0074.00

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
QA ↓ ↓ ↓ ↓ ↓	AU	WO 01/04179	01/18/2001	The Dow Chem. Co.		
	AV	WO 01/04183	01/18/2001	The Dow Chem. Co.		
	AW	WO 01/92584	12/06/2001	Eidgenossische Tech. Hochschule		
	AX	WO 03/004471	01/16/2003	Ciba Specialty Chem. Holding, Inc.		
	AY	WO 03/008646	01/30/2003	Surmodics, Inc.		

Examiner Signature	<i>J. Brown</i>	Date Considered	6/16/06
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		US-			
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		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
	AZ	WO	03/034995	05/01/2003	The Scripps Res. Inst.		
	BA	WO	90/00049	01/11/1990	Cetus Corp.		
	BB	WO	95/21631	08/17/1995	Nycomed Imaging AS		
	BC	WO	96/33156	10/24/1996	Lambson Fine Chem. Ltd.		
	BD	WO	96/33157	10/24/1996	Lambson Fine Chem. Ltd.		

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Signature*[Signature]*Date
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JH	BE	WO 97/49664	12/31/1997	Lambson Fine Chem. Ltd.		
	BF	WO 98/53857	12/03/1998	Mallinckrodt Med., Inc.		

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Sheet 1 of 2

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
Qn	BG	CORDOVA ET AL., "A Highly Chemo- and Stereoselective Synthesis of B-Keto Esters via a Polymer-Supported Lipase Catalyzed Transesterification," J. Org. Chem. 2001, Vol. 66, 1906-1909.	
	BH	HAAG ET AL., "New Polyethylene Glycol Polymers as Ketal Protecting Groups - A Polymer Supported Approach to Symmetrically Substituted Spiroketal," Synthetic Communications (2001), Vol. 31, No. 19, pp. 2965-2977.	
	BI	HAI ET AL., "Polymerization of Diaspirin Cross-Linked Hemoglobin (DCLHb) with Water-Soluble, Nonimmunogenic Polyamide Cross-Linking Agents," Bioconjugate Chem. (1999), Vol. 10, pp. 1013-1020.	
	BJ	HERMAN ET AL., "Poly(Ethylene Glycol) with Reactive Endgroups: I. Modification of Proteins," J. of Bioactive and Compatible Polymers, Vol. 10, April 1995, pp. 145-187.	
	BK	HUANG ET AL., "The Synthesis of Polyethylene Glycol (PEG) with Different Functional Groups at Each End. II. Synthesis of a Series of Monosubstituted PEG via Polyvinyl Alcohol (PVA) as Support," J. of Applied Polymer Sci. (1993), Vol. 47, pp. 1503-1511.	
	BL	MOHSENI ET AL., "Conduction and electrooptical properties of vanadium-containing polymer electrolyte networks from sol-gel methods with modified poly(ethylene glycol)s and poly(tetramethylene oxide)," J. Mater. Chem. (1999), Vol. 9, pp. 1363-1367.	
	BM	MOSZNER ET AL., "Reaction behaviour of monomeric B-ketoesters," Polymer Bulletin (1994), Vol. 32, pp. 411-417.	
	BN	NAKA ET AL., "Synthesis of a star-shaped polymer having tris (B-diketonato)chromium(III) at the center core," Polymer Bulletin (1998), Vol. 41, pp. 263-266.	
	BO	PANDE ET AL., "Camphorquinone-10-sulfonic acid and derivatives: Convenient reagents for reversible modification of arginine residues," Proc. Natl. Acad. Sci. USA, Vol. 77, No. 2, pp. 895-899, February 1980, Biochemistry.	
Qn	BP	PARR ET AL., "Factors influencing the retention and chemical stability of poly(ethylene glycol)-lipid conjugates incorporated into large unilamellar vesicles," Biochimica et Biophysica Acta 1195 (1994), pp. 21-30.	

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Considered

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Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/751,009
				Filing Date	12/31/2003
				First Named Inventor	Samuel P. McManus et al.
				Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	2	of	2	Attorney Docket Number	SHE0074.00

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
QA	BQ	SELIGER ET AL., "Two-carrier liquid-phase synthesis of main-chain liquid crystalline oligomers and characterization of the products," Fresenius J. Anal. Chem. (1995), Vol. 351, pp. 260-270.	
	BR	NOF Corporation, Catalog 2003 - 1st: PEG Derivatives, Phospholipid and Drug Delivery Materials for Pharmaceuticals, Tokyo, Japan, 1-46.	
	BS	Shearwater Polymers, Inc., Catalog 1995: Polyethylene Glycol Derivatives, Huntsville, AL, pp. 2-49.	
	BT	Shearwater Polymers, Inc., Catalog 1997-1998: Polyethylene Glycol Derivatives, Huntsville, AL, pp. 1-53.	
	BU	Shearwater Polymers, Inc., Catalog 2001: Polyethylene Glycol and Derivatives for Biomedical Applications, Huntsville, AL, pp. 1-17.	
QA	BV	Nektar Therapeutics, Nektar Molecule Engineering Catalog 2003: Polyethylene Glycol and Derivatives for Advanced PEGylation, pp. 1-20.	

Examiner Signature	<i>J. Rogers</i>	Date Considered	6/16/06
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